

INCH-POUND

MIL-C-39010C
AMENDMENT 2
4 December 1991
SUPERSEDING
AMENDMENT 1
18 Dec 1986

MILITARY SPECIFICATION

COILS, ELECTRICAL, FIXED RADIOFREQUENCY,
MOLDED, ESTABLISHED RELIABILITY
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-39010, dated 1 March 1985,
and is approved for use by all Departments and Agencies of the
Department of Defense.

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* 3.4.5, delete and substitute:

"3.4.5 Solder and soldering flux. Solder shall be in accordance with QQ-S-571 and shall have a liquidus melting point greater than +270°C and a plastic stage not to exceed +10°C. The plastic stage is the duration between solid and liquid. Flux shall be in accordance with MIL-F-14256, type R or RMA.

* 3.5.2.1, delete and substitute the:

"3.5.2.1 Solderable/weldable lead terminals. Unless otherwise specified, the manufacturer shall verify by certification that all leads conform to type LW(---)C-52-N in accordance with MIL-STD-1276. The maximum thickness of 200 microinches is not applicable."

AMSC N/A

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FSC 5950

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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* 3.14, delete and substitute:

"3.14 Resistance to soldering heat. When coils are tested as specified in 4.7.10, there shall be no evidence of mechanical damage, loosening of terminals or solder reflow as evidenced by solder flowing from the body. Pre- and post- test X-ray inspection at 10X shall be required. "

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* 4.4.4b, delete and substitute:

"b. Procedure II - Extension of qualification to lower FR levels. To extend qualification to the R (0.01 percent) and S (0.001 percent) FR levels, data from two or more classes of all core materials may be combined."

* 4.4.4c, delete and substitute:

"c. Procedure III - Maintenance of FR level qualification. Maintenance period B of FRSP-10 shall apply. Regardless of the number of production lots produced during this period, the specified number of unit hours shall be accumulated to maintain qualification (see 4.6.2.1.1). For FR levels R and S data from all classes and core materials may be combined."

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* 4.7.10b, delete and substitute:

"b. Test condition letter - A."

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* 4.7.10, add the new subparagraph as follows:

"c. After the test and as soon as the solder terminals have returned to room ambient temperature, the following tests shall be made in the order shown:

- (1) Visual: There shall be no evidence of solder reflow of internal connections as evidenced by solder flowing from the body of the device.
- (2) Thermal shock: As specified in 4.7.2a.
- (3) Terminal strength: As specified in 4.7.11. There shall be no evidence of mechanical damage or loosening of terminals.
- (4) Electrical verification: Winding continuity shall be verified."

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* 4.7.19c, last sentence, delete in it's entirety and substitute the following:

"Within 8 hours after these measurements, the specified electrical characteristics (see 3.1), shall be measured as specified in 4.7.3. After the test, units shall be inspected for evidence of corrosion."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85
NASA - NA

Preparing activity:

Army - ER

Agent:

DLA - ES

Review activities:

Army - AR, MI
Navy - OS, SH
Air Force - 17, 99

Project (5950-0745-01)

User activities:

Army - ME
Navy - AS, CG, MC, SH
Air Force - 19